Allied-Axis

THE PHOTO JOURNAL OF THE SECOND WORLD WAR



Contents

Sd.Kfz. 231; Sd.Kfz 232; Sd.Kfz. 233 and Sd.Kfz 263.

Source material: Die gepanzerten Radfahrzeuge des deutschen Heeres 1905-1945, Motorbuch Verlag; Schwere Panzerspähwagen (SdKfz 234), Darlington Publications; Panzer Tracts 13 Panzerspaehwagen Sd.Kfz.3 to Sd.Kfz. 263, Panzer Tracts.

Source material: TM9-751, 155-mm Gun Motor Carriage M12 and Cargo Carrier M30, War Department, 28 January 1944, reprinted by Portrayal Press; TM9-751, Change 1, 155-mm Gun Motor Carriage M12 and Cargo Carrier M30, War Department, 23 August, 1944, reprinted by Portrayal Press; History of the 155-mm Gun Motor Carriage M12 and Cargo Carrier M30, War Department, July 1945 and Historical Monograph, Pressed Steel Car Company, Inc. (Armored Tank Division), Hegewisch Station, Chicago, IL, March 1943.

Kradschüzten & Kradmelder, part 2
Source material: BMW Motorcycles in World War II: R12/R75, Schiffer publishing; German Military Motorcycles in the Reichswehr and Wehrmacht, Schiffer publishing; Heavy Sidecar Motorcycles of the Wehrmacht; Schiffer publishing; BIMW archives.

German fully tracked flamethrowers:

Pz.Kpfw. II (Flamm) Ausf. A and B (Sd.Kfz. 122) Flamingo; Panzer B2 (F); Panzerkampfwagen III (F1);

Sturmgeschütz-I (FLAMM) and Flammpanzer 38.

Source material: Flammpanzer: German Flamethrowers 1941-1945, Osprey; Sturmgeschütz & Its Variants, Schiffer; Panzer III & Its Variants, Schiffer; Czechoslovak Armored Fighting Vehicles 1918-1948, Schiffer.

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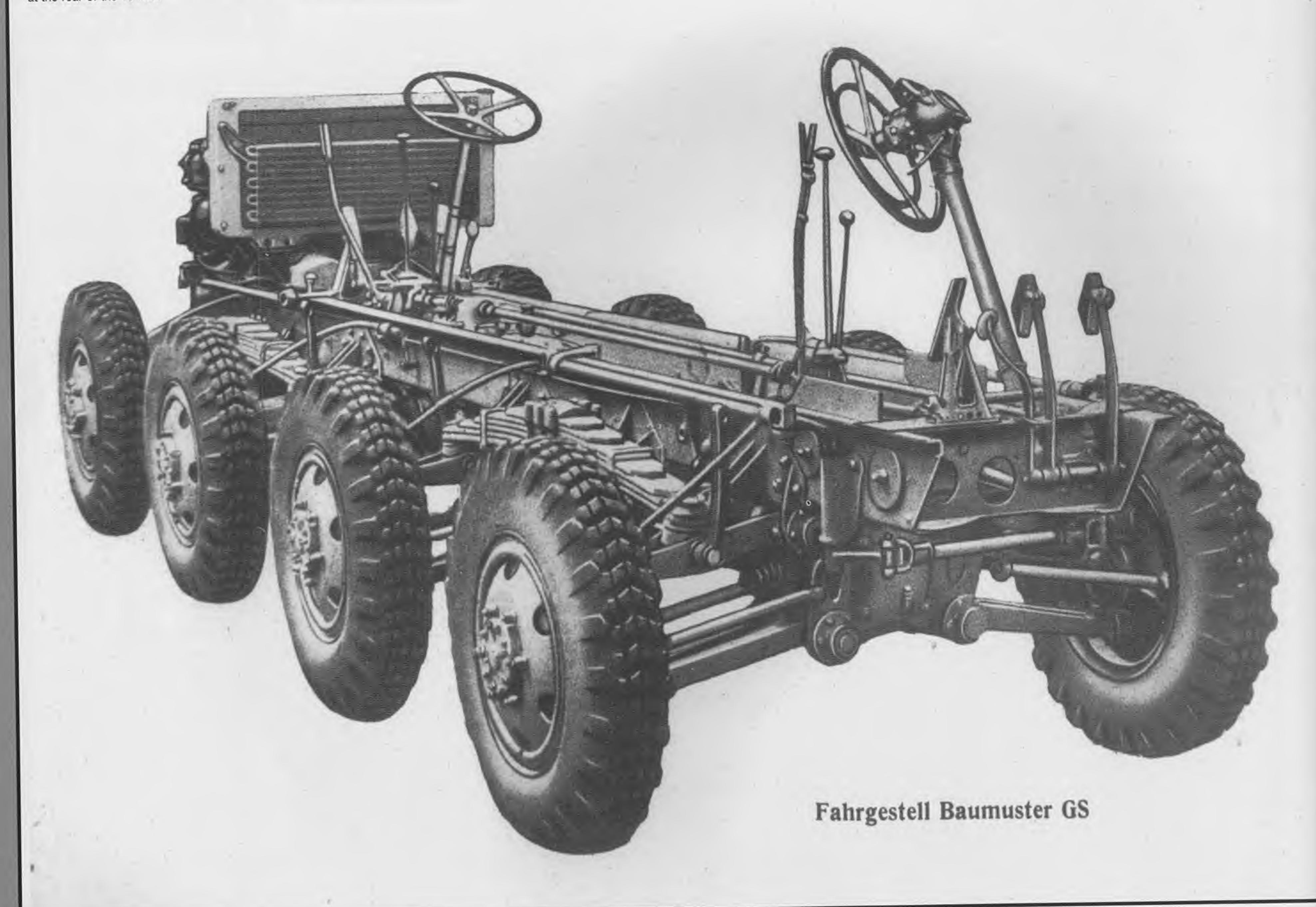








The Sd.Kfz. 231 and its family of vehicles was built on a conventional automotive ladder-type frame. Leaf spring independent suspension was used. Notice the driver's controls at either end. The engine was installed at the rear of the vehicle.





















A captured Sd.Kfz. 231, photographed in March 1943 during its evaluation at Aberdeen Proving Ground. The rear engine access door, as well as the right side fighting compartment door are open. The remains of a rather intricate camouflage pattern are still visible on the superstructure. (NARA)

Schwere
Panzerspähwagen
(FU) Sd.Kfz/232

The Sd.Kfz. 232 was intended to provide long-distance radio communications for the heavy platoon of the armored Reconnaissance Company of each reconnaissance battalion. For this purpose, three of these vehicles were assigned to each heavy platoon. The Sd.Kfz. 232 was developed alongside the Sd.Kfz. 231, with which it shares almost every part. They are distinguished by the powerful radio used in the 232. Initially the Fu 11 SE 100, with its massive frame aerial, was installed. With the vehicle stationary, this radio had a voice range of seventy kilometers. Later, this radio was augmented with a shortrange radio of the same type, the Funkspechgerät A, that was retrofitted to the Sd.Kfz. 231. Later, the Fu 12 SE 80 radios with the equally distinctive, but smaller, "star" aerials were mounted, rather than the Fu 11 set. In time, the Funkspechgerät F supplanted the Funkspechgerät A for short-range communications. Production of the 232 lasted a bit longer than it did for the 231, with the last one not being completed until 1943, seven years after the first one was begun. This brand-new Sd.Kfz. 232 awaits delivery. The earliest vehicles, such as this, lacked both the additional frontal armor and any form of front bumper. The two-piece driver's hatch is plainly visible. The large hole in the early flush-type mantlet accepted the 2 cm cannon while the smaller one was for the coaxial machine gun. (Walter J. Spielberger)















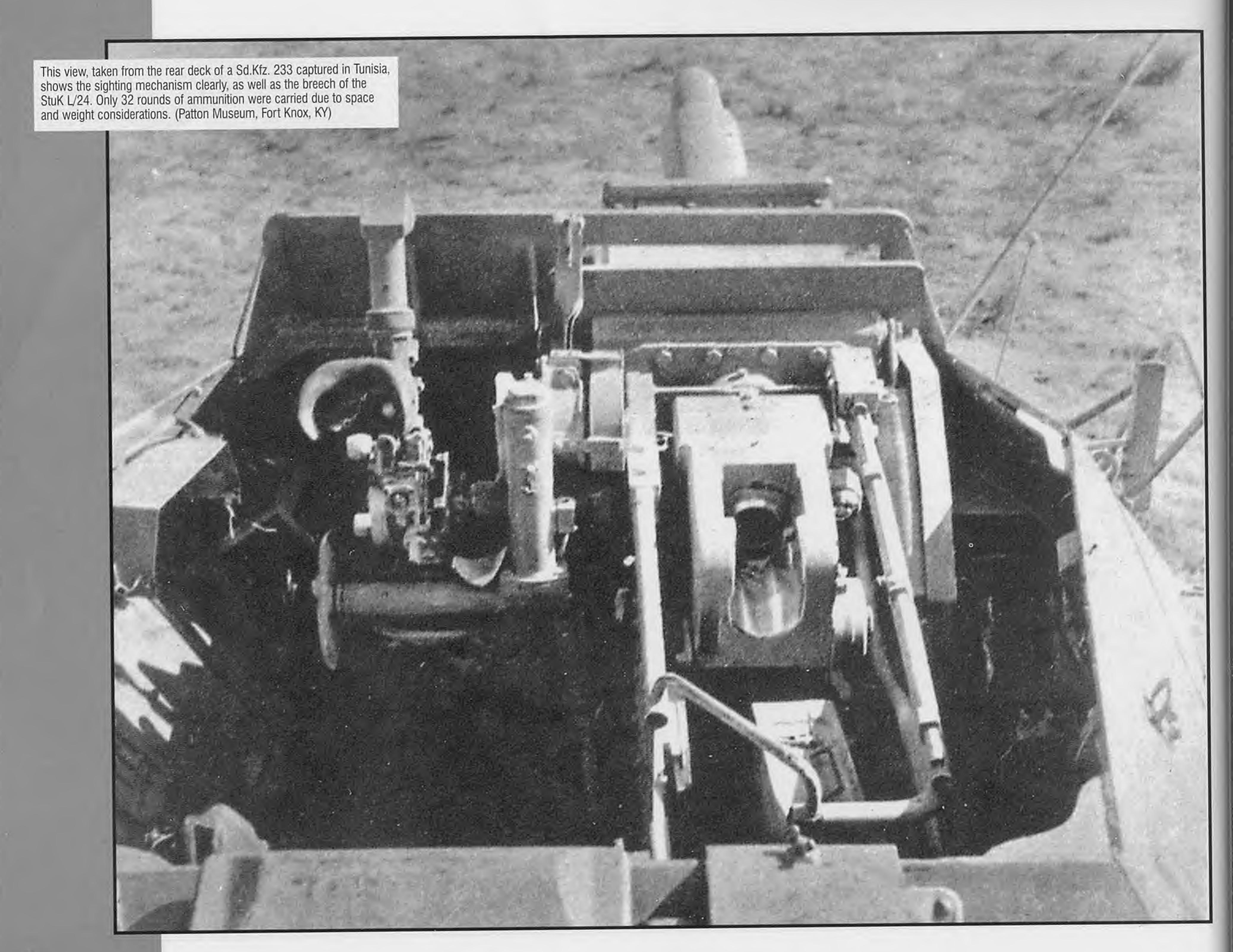
Being passed by a Lend-Lease Churchill in Russia, this abandoned Sd.Kfz. 232 is already missing its co-axial armament and external stowage. The presence of the Churchill and the camouflage of the Sd.Kfz. 232 indicate that this picture was probably taken in the winter of 1941/42. This intricate camouflage pattern extends to the Zusatzfrontplatte, which also contains tactical markings. (Vollert Archives)



Some of the earliest Sd.Kfz. 233 were built by cutting down the superstructure of overhauled Sd.Kfz. 263 vehicles. This accounts for the presence of turn signal guards on this vehicle. This feature was discontinued from new production prior to the July 1942 introduction of the Sd.Kfz. 233. Captured intact by the British, this vehicle was carefully examined. Notice the water can (so identified by the white cross painted on it) stowed on the rear of the hull. A spare tire is mounted on the rear of the vehicle, as was the case on all the eight-wheeled armored cars after the self-sealing inner tubes were discontinued. (Military History Institute, Carlisle Barracks, PA)



















All the crewman seen here in these two photos are decked out in their finest, with shined leather and felt gloves in evidence. The purpose is most likely a parade or other public display. These shots also provide an excellent perspective of the early panzer "beret." These uniforms were in most respects identical to their tanker counterparts, but marked with the appropriate arm of service piping color. In this case, most likely yellow. The shot at left shows some rarely seen uniform details, such as the marksmanship lanyards (two versions) and the officer's parade belt on the man on the right. (Fellmuth)









The outside of this Sd.Kfz. 263, like that of most military vehicles, was festooned with considerable additional stowage. The extra water cans, identifiable by their white crosses, were especially valuable for the men of the Afrika Korps. A large swastika flag has been draped over the rear portion of the antenna array to act as an air recognition device. (Patton Museum, Fort Knox, KY)

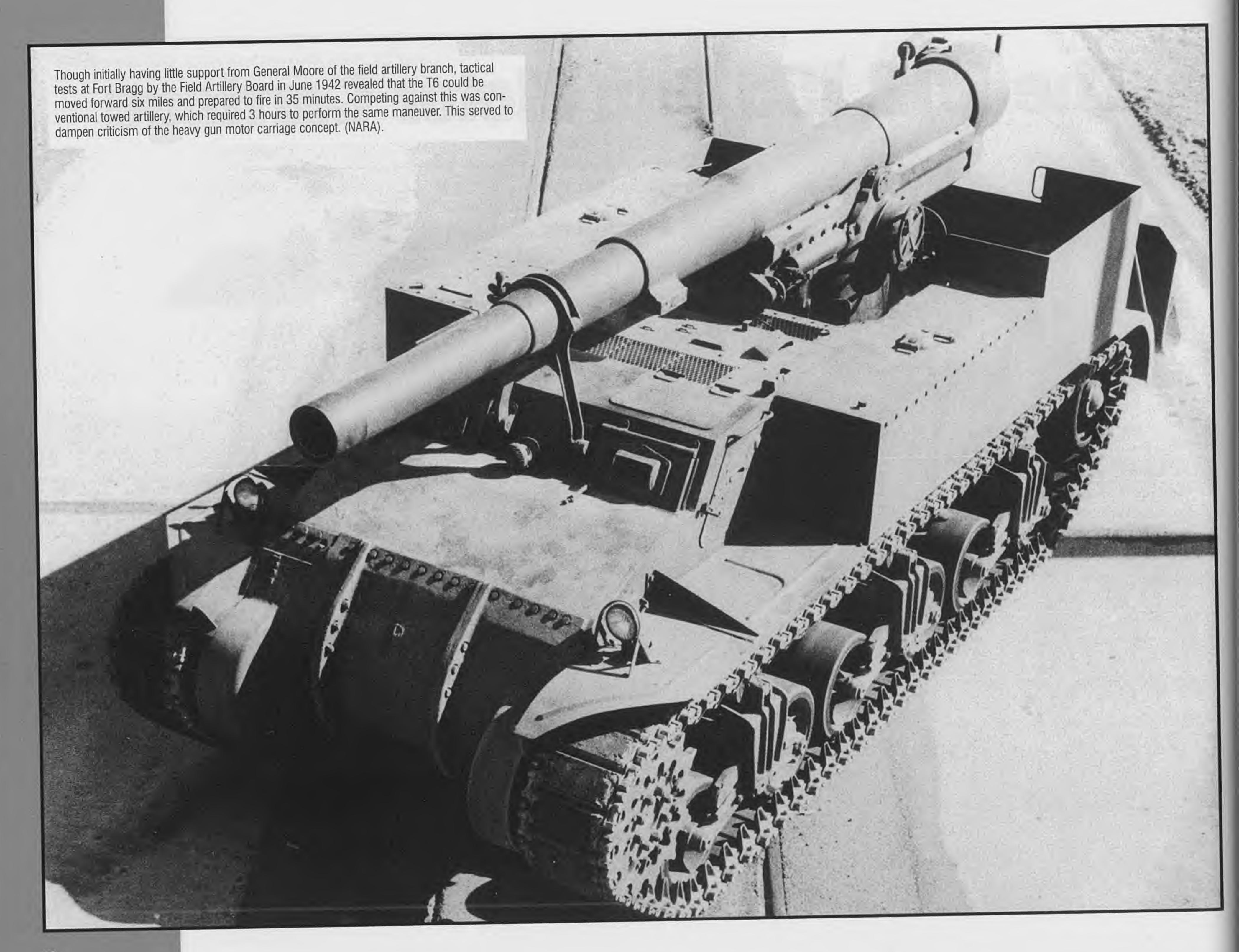


The M12 155 Gun Motor Carriage



Though ten 155mm cannon had been mounted on motor carriages in 1918 by Rock Island Arsenal, the idea lay dormant for years. Development of 155mm Gun Motor Carriages resumed in earnest in June 1941, having been initiated by Ordnance Committee action. The pilot, known as the T6 and shown here,

was built at Rock Island Arsenal. It consisted of a 155mm Gun, M1918, M1 mounted on a chassis derived from the M3 medium tank. It was completed in February 1942 and shipped to Aberdeen Proving Ground for testing. (MVPA Archives)

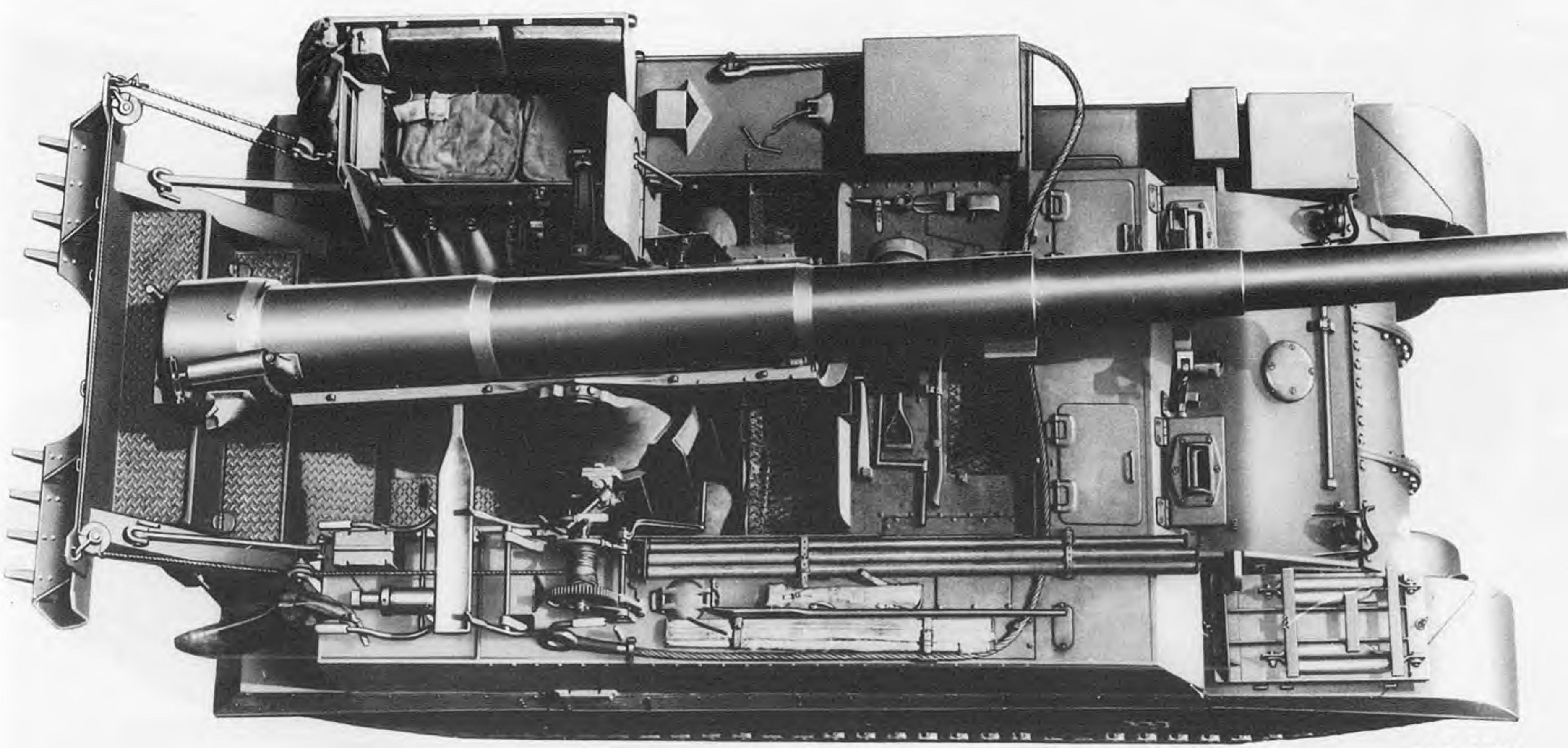




The M12, as the T6, was recommended for standardization on July 25, 1942 and was produced by the Pressed Steel Car Company. An order for fifty vehicles was authorized in July of 1942, with the weapons themselves coming from Army stocks. This order was upped to 100 vehicles on August 10, 1942, necessitating the reclaiming of 155mm guns that had been used on monuments to World War I. This view, taken at the General Motors Proving Ground, where most army track-laying vehicles were tested during WWII, illustrates the September 1943 appearance of a production vehicle. The previously mentioned winch is clearly visible on the upper right side of the superstructure. (Patton Museum, Ft. Knox, KY)

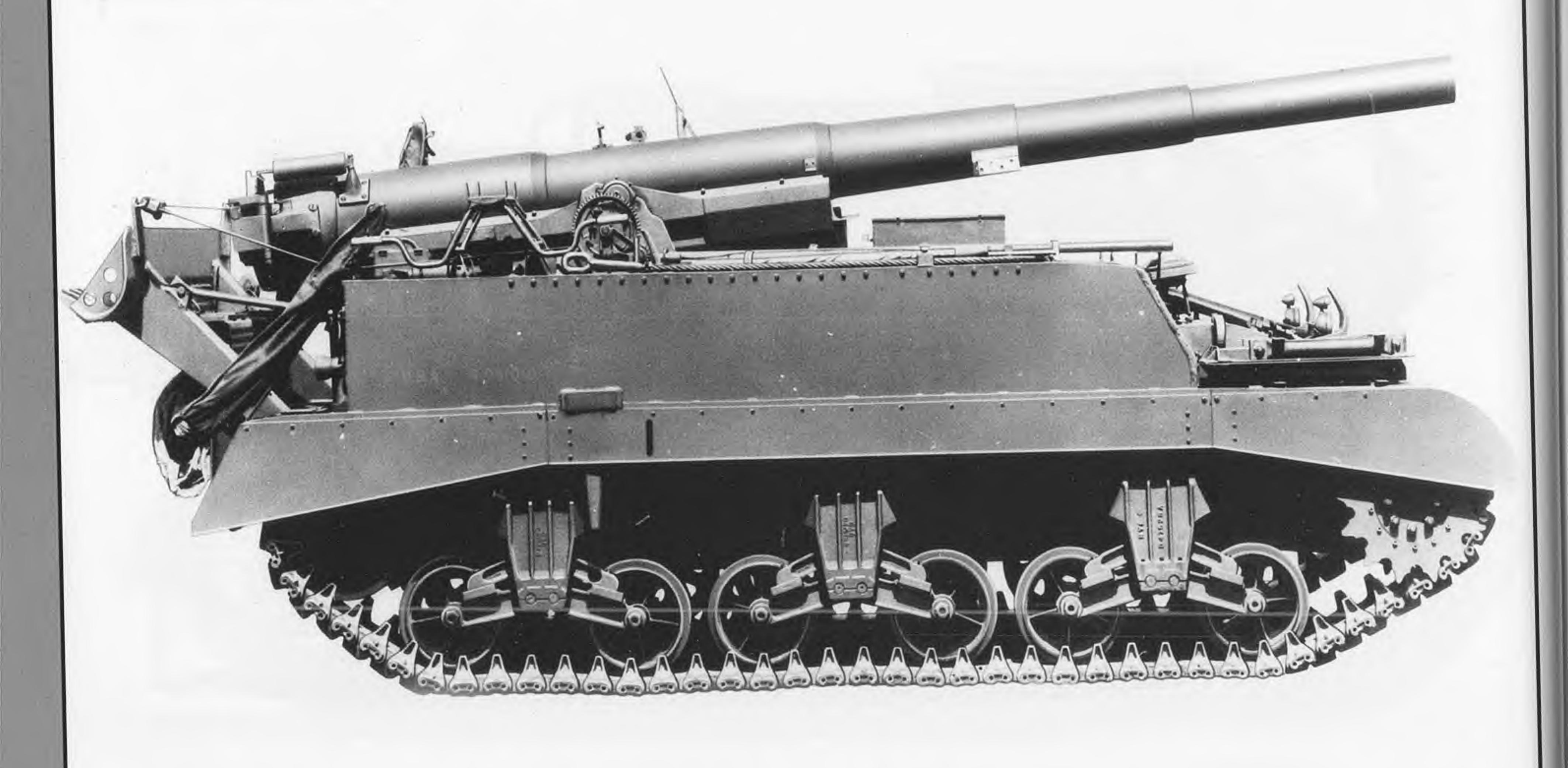


This Raritan Arsenal photo was used to illustrate the vehicle's manuals. Despite its retouching, it does provide an excellent overall view of the layout of the Gun Motor Carriage. The Continental R975 C1 engine, located in the rear of the M3 medium tank upon which the vehicle was based, was relocated well forward. (Patton Museum, Ft. Knox, KY)



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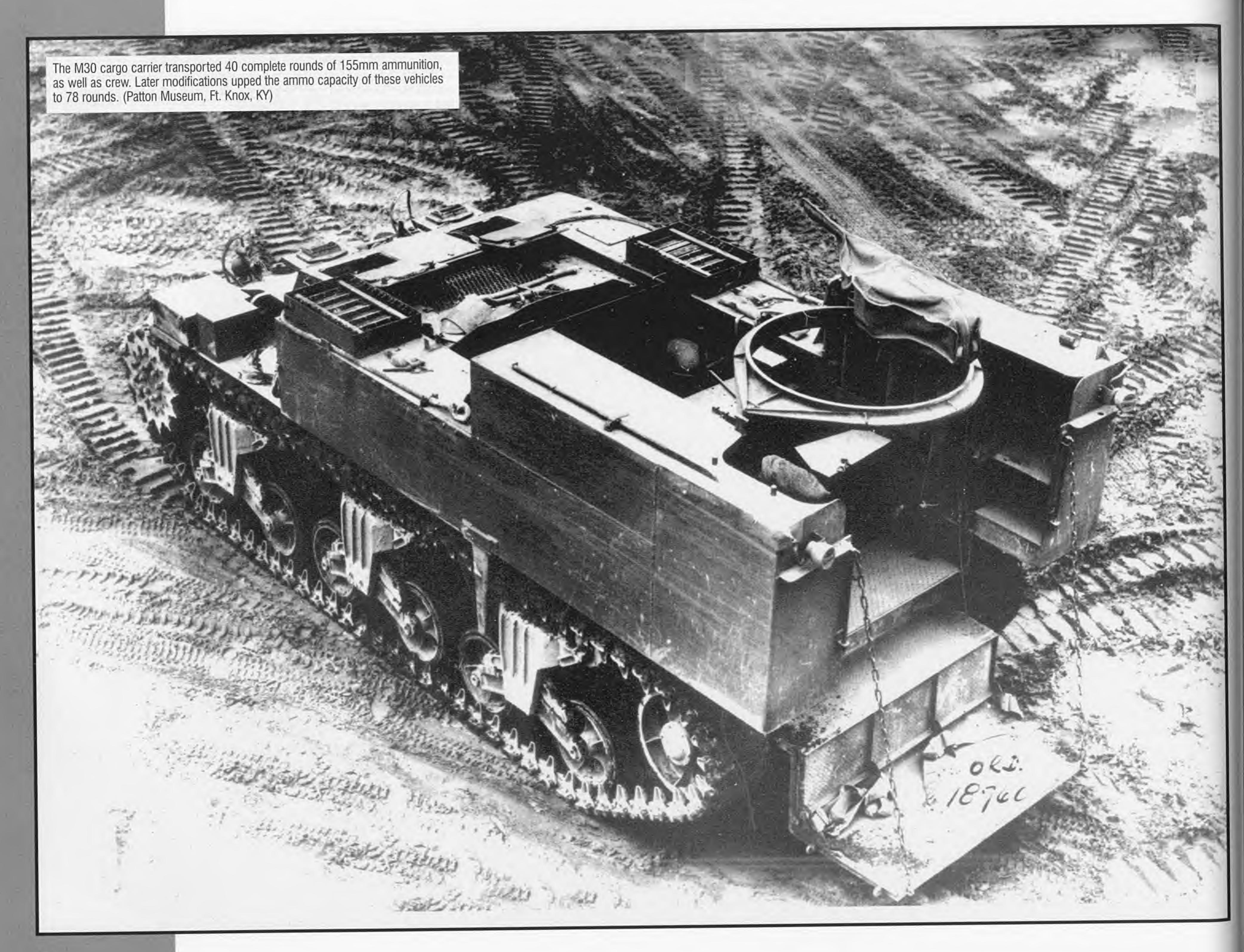
Another Raritan Arsenal view, this time showing the sand shields in place. These were not installed at the time of manufacture, but rather were attached at tank depots prior to the vehicles being shipped to using units. The manufacturing branch requested this work, along with replacement of the fuel pump and installation of extension handles for the operation of Cumo oil filters, on February 10, 1943.

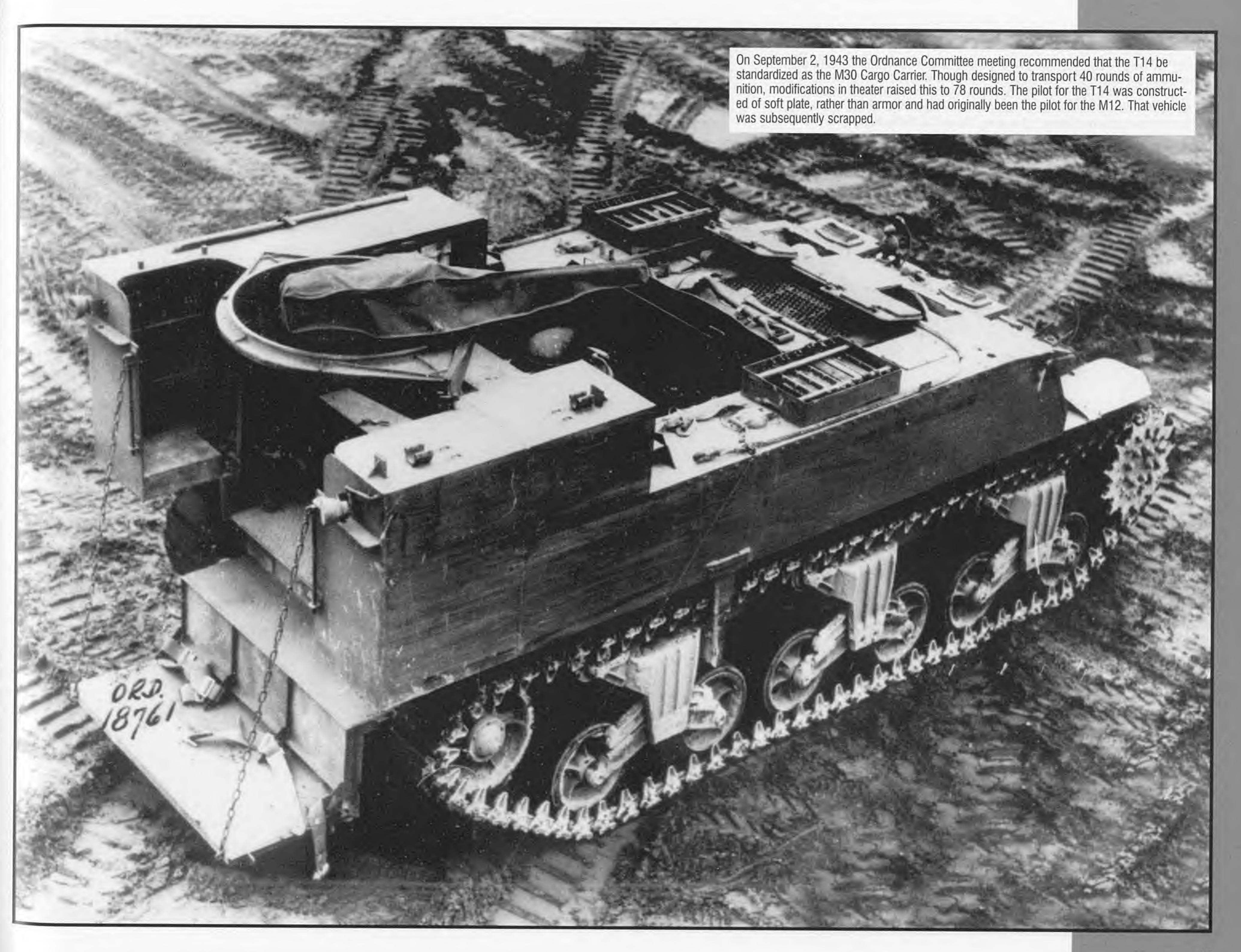




Another view of the 35th production vehicle taken at Aberdeen. The long rear over-hang of the recoil spade was a hindrance to the off-road mobility of the vehicle and the engine life was only 160 hours. Despite these problem areas, the M12 forever changed the face of U.S. Army heavy artillery. (MVPA Archives)







The T14 Cargo Carrier was designed specifically to accompany the M12, and was also built by Pressed Steel Car Company. It was intended that it would be backed up to the M12 for re supply, much like today's M109 Palladin and support vehicle. Although drawings showing this arrangement have been found, photos of this use in the field have remained elusive. (U.S. Army Transportation Museum)







Adolph's Assassin, a 991st Field Artillery Battalion vehicle, is shown in operation near Kornelmunster, Germany. This photo of a Battery A vehicle was taken on November 4, 1944. (Patton Museum, Ft. Knox, KY)













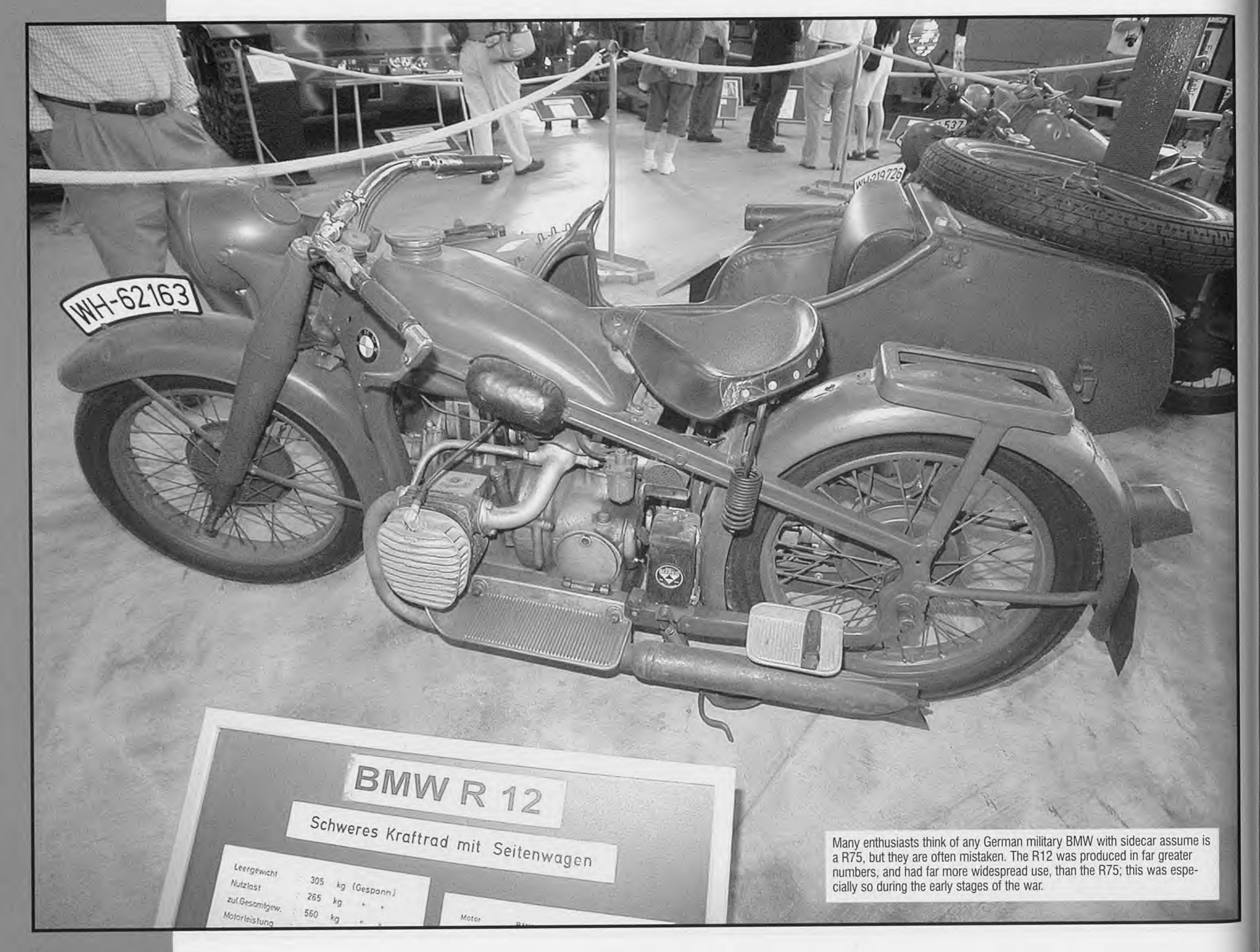


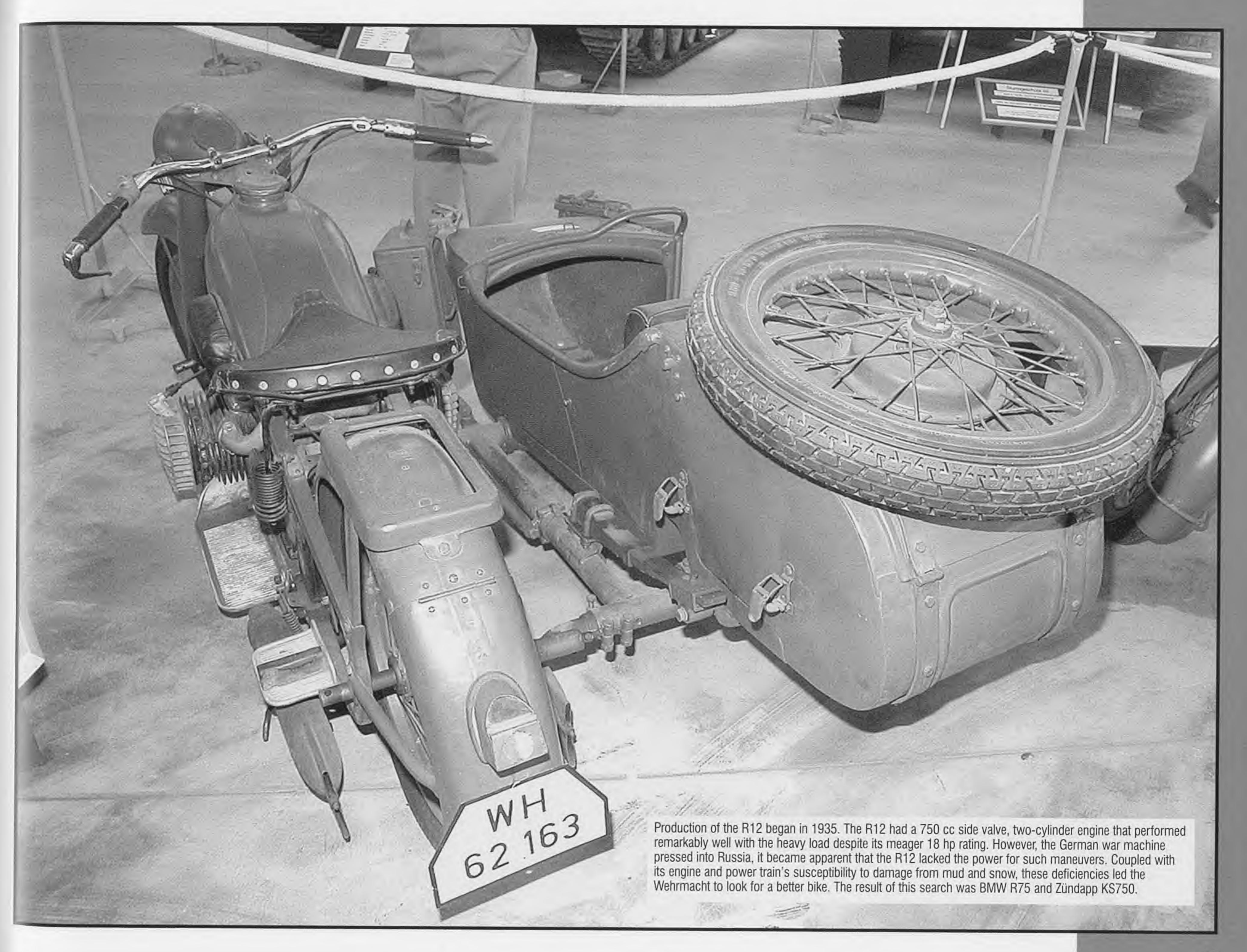








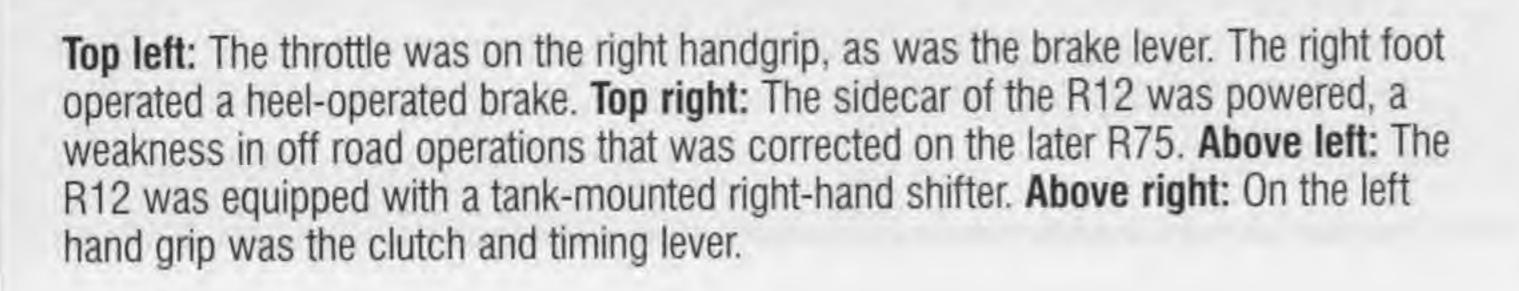






















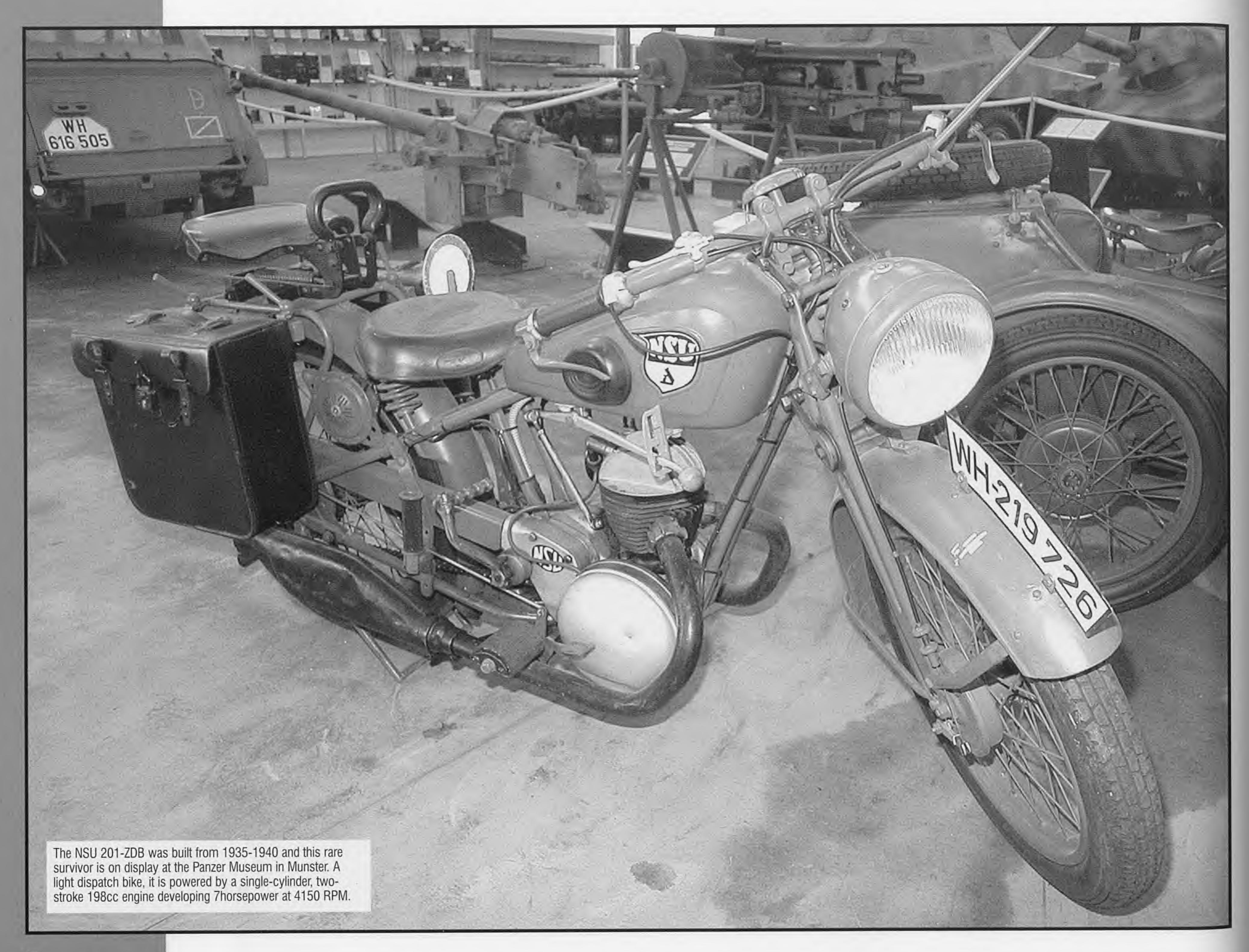








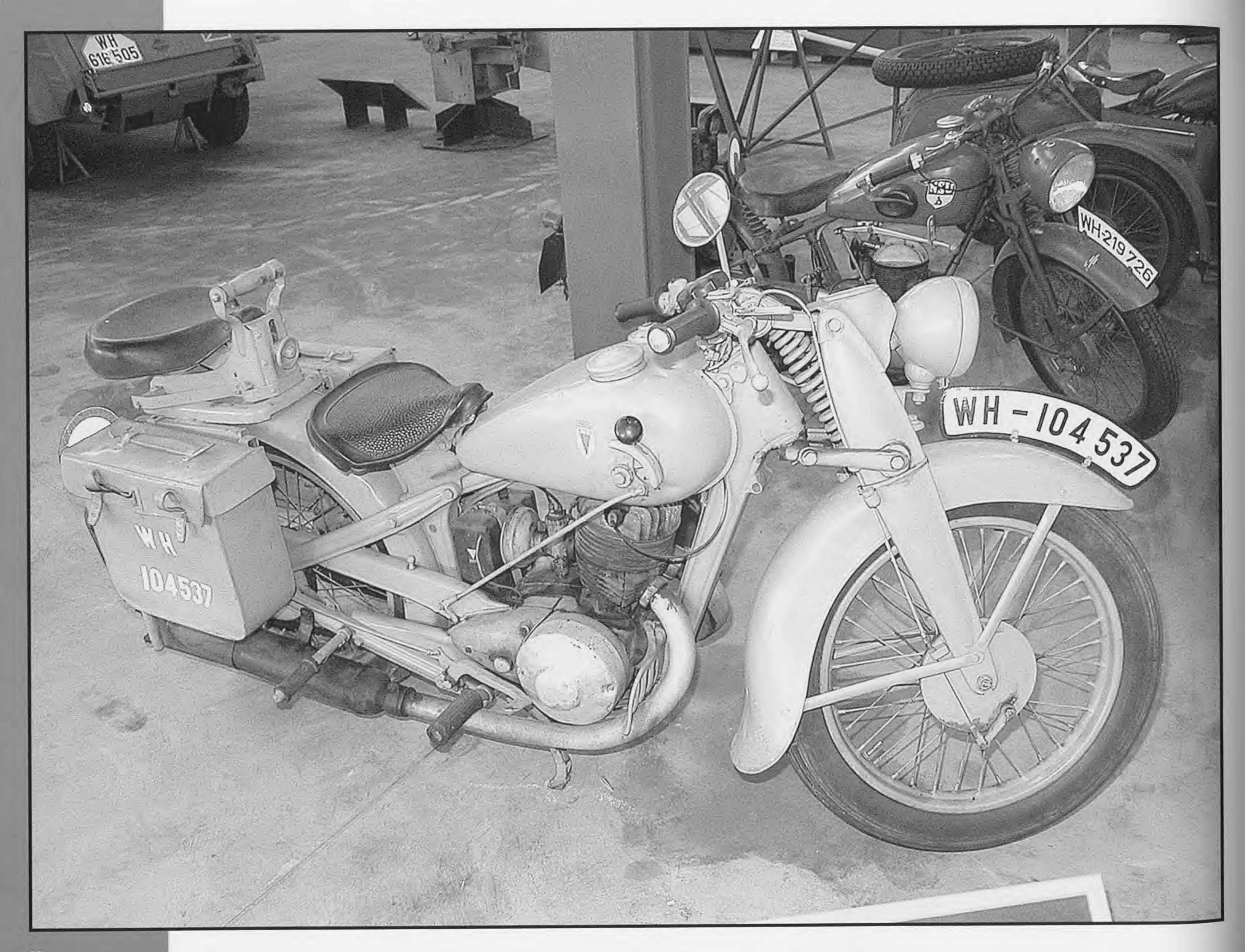






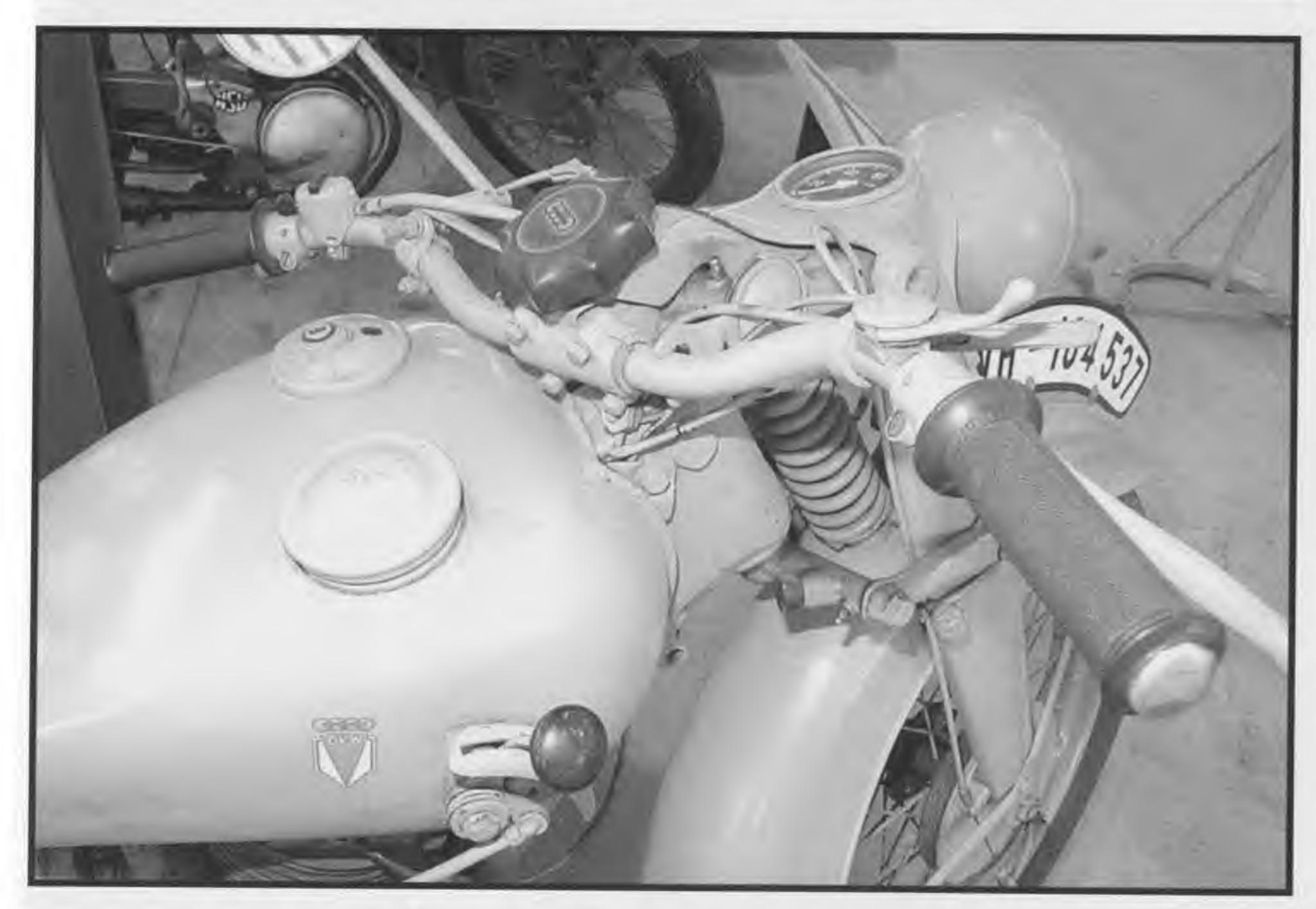














Also on display in Munster is this DKW-produced NZ350. Used by the German army as a medium courier bike, the machine was produced from 1938 through 1940. The NZ-350 had an aluminum frame, making it unusually light. The two-stroke 346cc single cylinder engine drove the rear wheel

through a four-speed gearbox and a chain-drive. The combination of lightweight and efficient gearing gave the machine a 105 km/hr top speed. Even though the bike was not robust or powerful enough for all the military asked of it, it continued to serve until the end of the war.

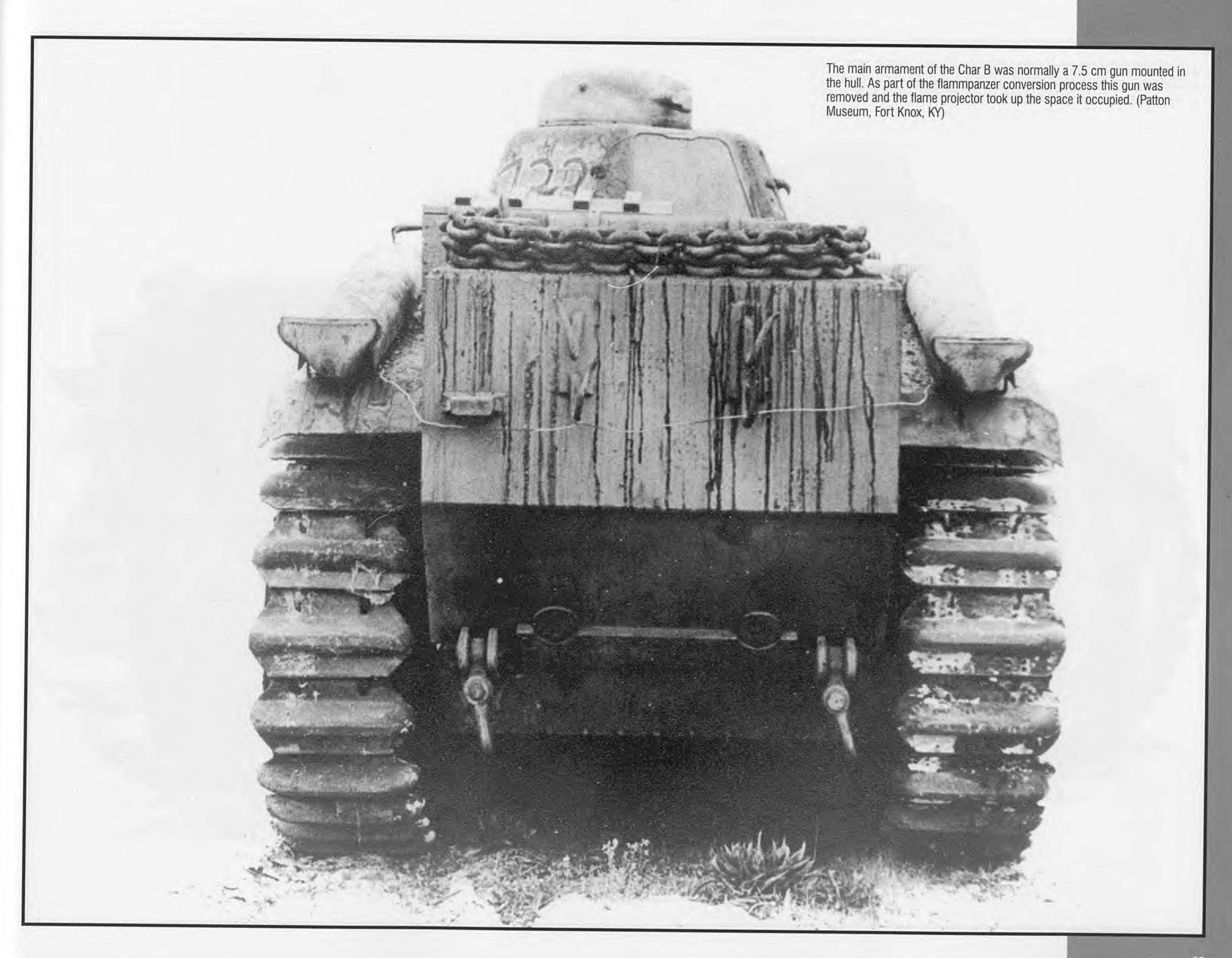


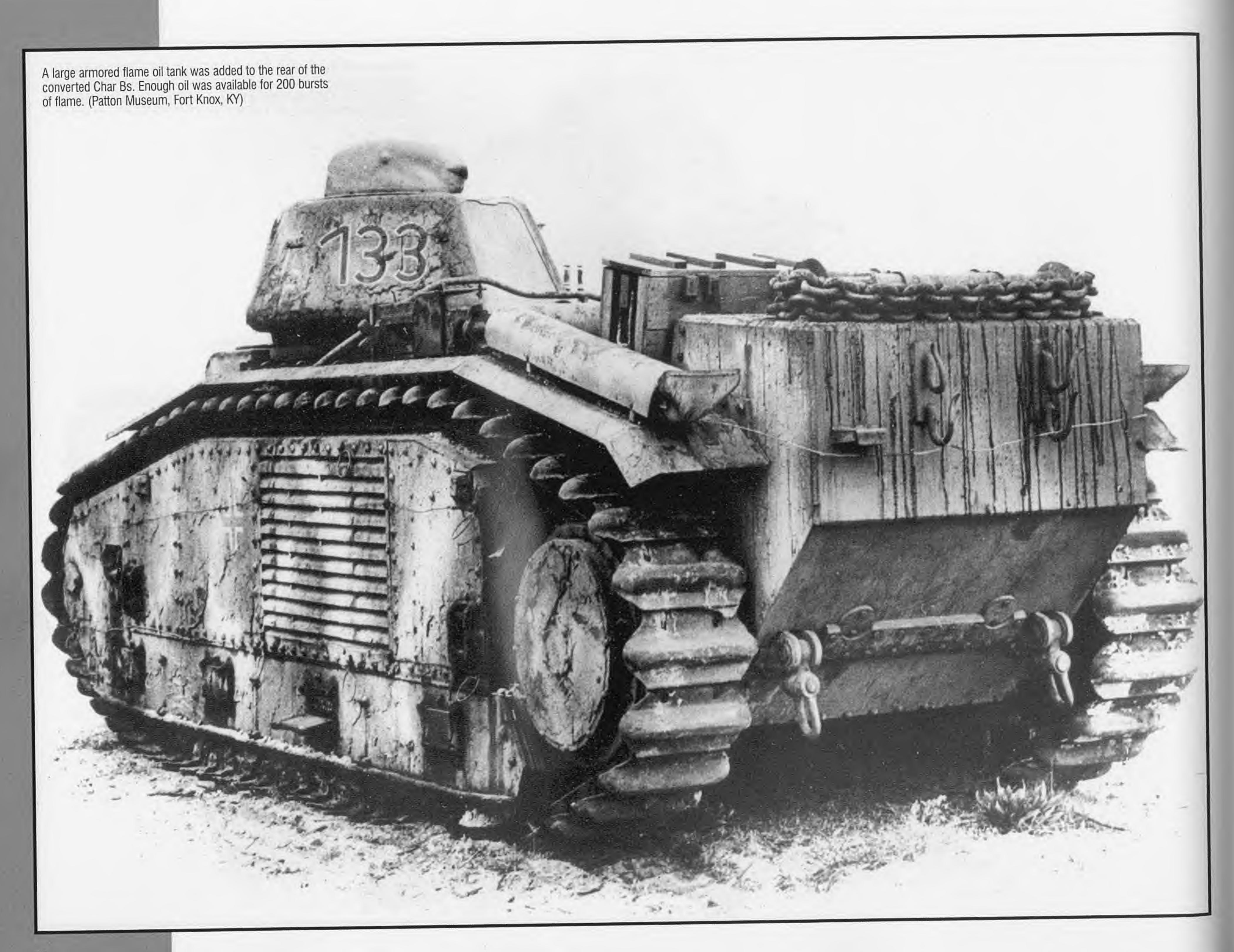
acetylene-fueled torch provided ignition of the oil. Production of the Ausf. A began in April 1939. Wegmenn built forty-six vehicles on the Panzerkampfwagen II Ausf. D chassis that in turn had been manufactured by M.A.N. Additional flamethrowers were built by Wegmann based on conventional gun tanks returned for conversion. Orders for 150 Ausf. B vehicles were placed even before the first series was completed. Production of this series, utilizing newly assembled M.A.N. chassis began in August of

1941, but prior to that date the order had been reduced to 90 vehicles. That decision was subsequently reversed and new orders came down instructing that the remaining chassis be used to construct tank-killers. Sixty-two Ausf. B flamethrowers had been constructed by that time. Eventually, even these vehicles were converted to tank killers, losing their entire flamethrower structure. Though they saw limited action, these vehicles, like most flame weapons, were very effective. (BA)

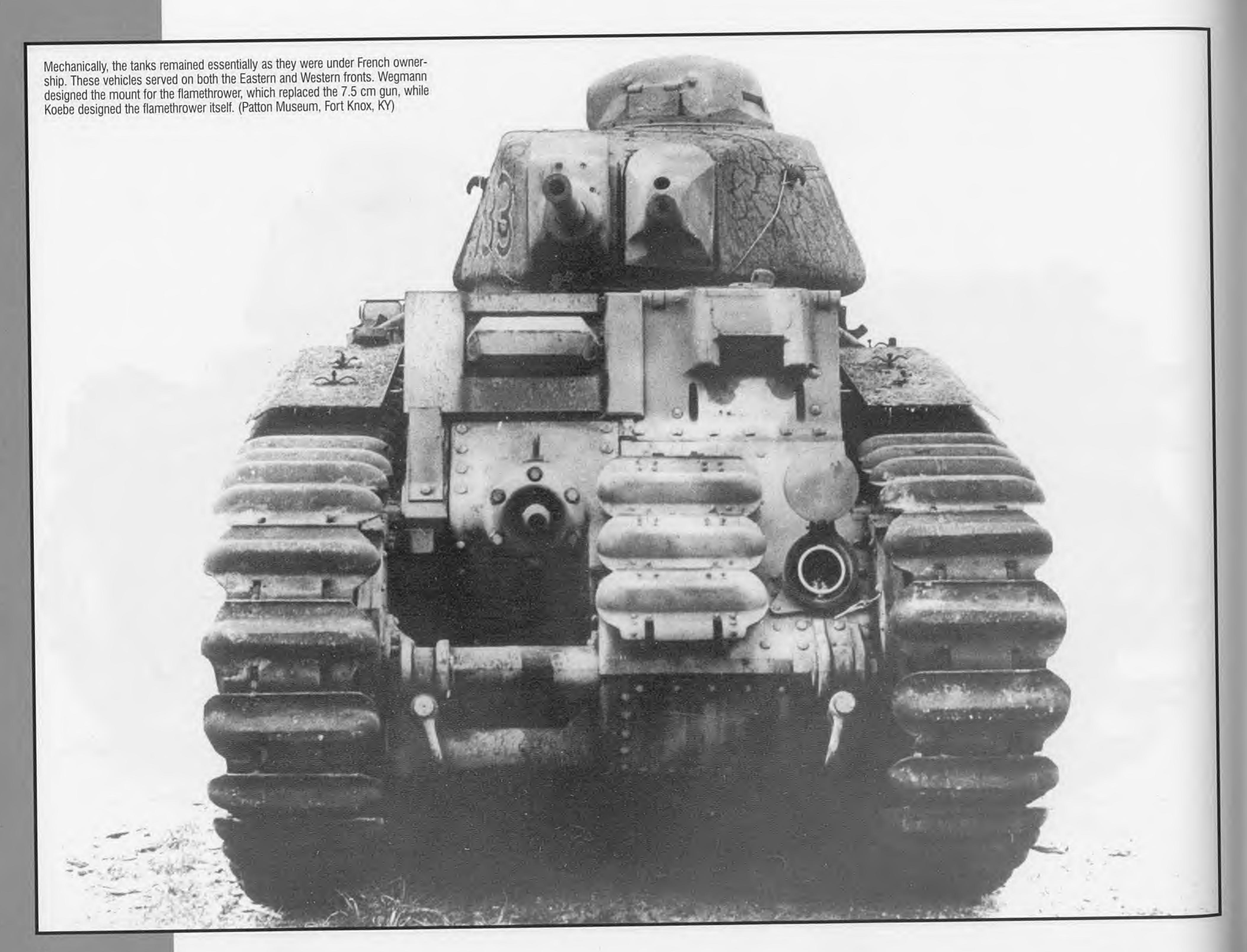


The German military liked the idea of a flame-throwing tank and the Panzer Il-based flamethrower was reasonably successful. Therefore the decision was made to produce a second series of Flammpanzers based on captured French Char B tanks. This Panzer B2 (F) was knocked out in Holland in 1944. (NARA)





Unlike earlier systems, which used pressurized gasses (usually nitrogen) as a propellant, the second series of Char B conversions used a pump to force the flame oil through the nozzle. (Patton Museum, Fort Knox, KY)











German fully tracked flamethrowers

Sturmgeschütz-I (FLAMM)









